

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :
: Kimiyuki ITO, et al. :
Serial No.: Divisional of : Group Art Unit: Not yet assigned
Appln. Serial No. 08/693,717 :
Filed: September 19, 2001 : Examiner: Not yet assigned
For: UNDERCOAT LAYER AND INTERMEDIATE LAYER FOR PHOTSENSITIVE
MEMBER

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, DC 20231

Sir:

Prior to examination of the above-referenced application, please amend the application as follows:

IN THE SPECIFICATION:

Page 5, line 5: change "possess" to --possesses--.

Page 24, line 12, change "tantalumdoped" to --tantalum doped--.

IN THE CLAIMS:

Please amend claims 15 and 18-21 as follows:

15. (Amended) The photosensitive member of claim 13,

wherein the tantalum doped tin oxide is a tin oxide doped with [about] 0.1 to [about] 10

[percentage-by weight] percentage-by-weight tantalum [metal].

18. (Amended) The photosensitive member of claim [14] 13,
wherein the tantalum doped tin oxide [is particles having] has a mean particle size of less
than [about] 2 micro-meters.

19. (Amended) The photosensitive member of claim 18,
wherein the tantalum doped tin oxide [is particles having] has [a] the mean particle size
of [about] 0.3 to [about] 1.0 micro-meters.

20. (Amended) The photosensitive member of claim [14] 13,
wherein [the] a content of the tantalum doped tin oxide is [about] 5 to [about] 70
percentage-by-weight of the total of the [intermediate] exterior surface layer.

21. (Amended) The photosensitive member of claim 13,
wherein the exterior surface layer has a thickness of [about] 7 micro-meters or less.

Please add claims 31 - 42 as follows:

--31. The photosensitive member of claim 21,
wherein the exterior surface layer has the thickness of 1 to 5 micro-meters.

32. The photosensitive member of claim 20,
wherein the content of the tantalum doped tin oxide is 7 to 40 percentage-by-weight.

33. The photosensitive member of claim 13,
wherein the tantalum doped tin oxide is surface-treated by a silane coupling agent or a
titanium coupling agent.

34. A photosensitive member comprising:
a substrate;
a charge generating layer being formed on the substrate and containing an organic charge

generating material;

a charge transporting layer being formed on the charge generating layer and containing an organic charge transporting material and a first binder resin; and

an exterior surface layer being formed on the charge transporting layer and containing tantalum doped tin oxide and a second binder resin.

35. The photosensitive member of claim 34,

wherein the tantalum doped tin oxide is a tin oxide doped with 0.1 to 10 percentage-by-weight tantalum.

36. The photosensitive member of claim 34,

wherein the tantalum doped tin oxide has a mean particle size of less than 2 micrometers.

37. The photosensitive member of claim 36,

wherein the tantalum doped tin oxide has the mean particle size of 0.3 to 1.0 micrometers.

38. The photosensitive member of claim 34,

wherein a content of the tantalum doped tin oxide is 5 to 70 percentage-by-weight of the total of the exterior surface layer.

39. The photosensitive member of claim 38,

wherein the content of the tantalum doped tin oxide is 7 to 40 percentage-by-weight.

40. The photosensitive member of claim 34,

wherein the exterior surface layer has a thickness of 7 micrometers or less.

41. The photosensitive member of claim 40,

wherein the exterior surface layer has the thickness of 1 to 5 micro-meters.

42. The photosensitive member of claim 34,

wherein the tantalum doped tin oxide is surface-treated by a silane coupling agent or a titanium coupling agent.--.

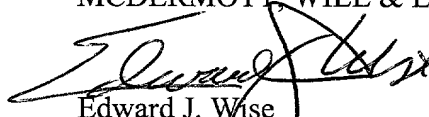
REMARKS

The above preliminary amendment is necessary to add new claims and to incorporate the amendments that were made during prosecution in the parent application Serial No. 08/693,717. An Annex is attached herewith which includes clean copies of the paragraphs and claims as amended.

Entry of this amendment is respectfully requested.

Respectfully submitted,

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ANNEX INCLUDING CLEAN VERSION OF AMENDED PARAGRAPHS
OF SPECIFICATION AND CLAIMS

IN THE SPECIFICATION:

Please replace the paragraph beginning at line 2 on page 5 with the following:

An object of the present invention is to utilize the aforesaid information to provide a novel layer containing conductive tantalum doped tin oxide powder, which is nontoxic and possesses excellent stability as a layer formed between a substrate and a photosensitive layer of a photosensitive member and/or as a protective layer for a photosensitive layer of a photosensitive member.

Please replace the paragraph beginning at line 10 on page 24 with the following:

A photosensitive member was produced in exactly the same way as Example 1 with the exception that carbon black was substituted for the tantalum-doped tin oxide powder used in the conductive layer in Example 1.

IN THE CLAIMS:

Please replace claims 15 and 18-21 as follows:

15. The photosensitive member of claim 13,

wherein the tantalum doped tin oxide is a tin oxide doped with 0.1 to 10 percentage-by-weight tantalum .

18. The photosensitive member of claim 13,

wherein the tantalum doped tin oxide has a mean particle size of less than 2 micrometers.

19. The photosensitive member of claim 18,

wherein the tantalum doped tin oxide has the mean particle size of 0.3 to 1.0 micrometers.

20. The photosensitive member of claim 13,

wherein a content of the tantalum doped tin oxide is 5 to 70 percentage-by-weight of the total of the exterior surface layer.

21. The photosensitive member of claim 13,

wherein the exterior surface layer has a thickness of 7 micro-meters or less.

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